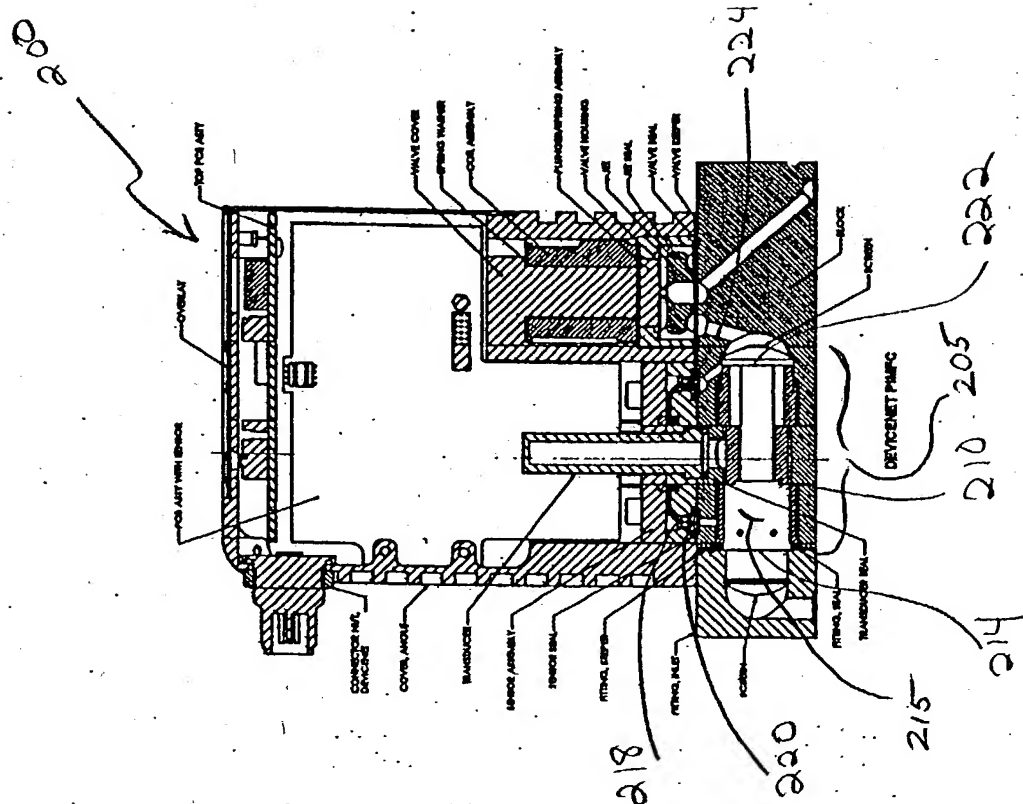
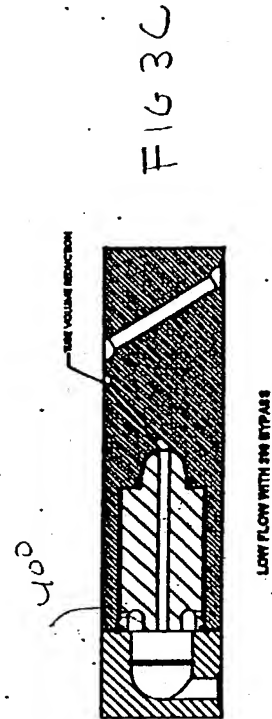
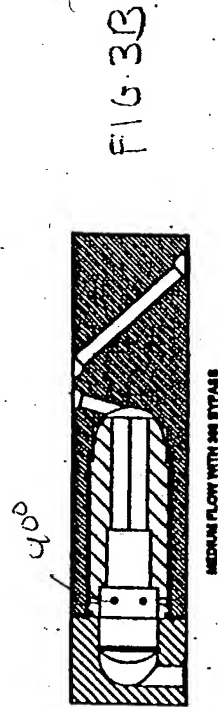
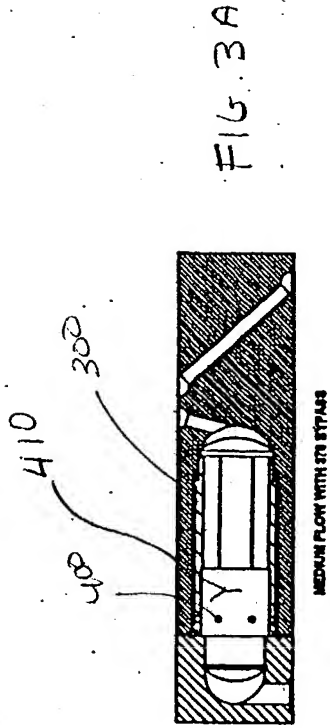
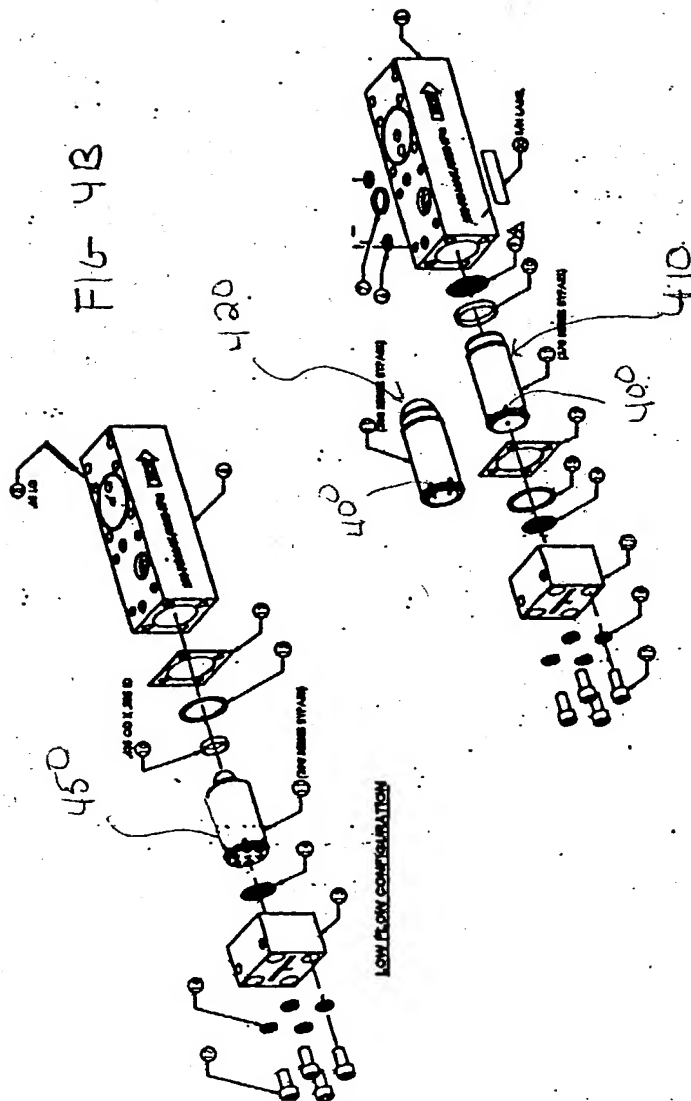
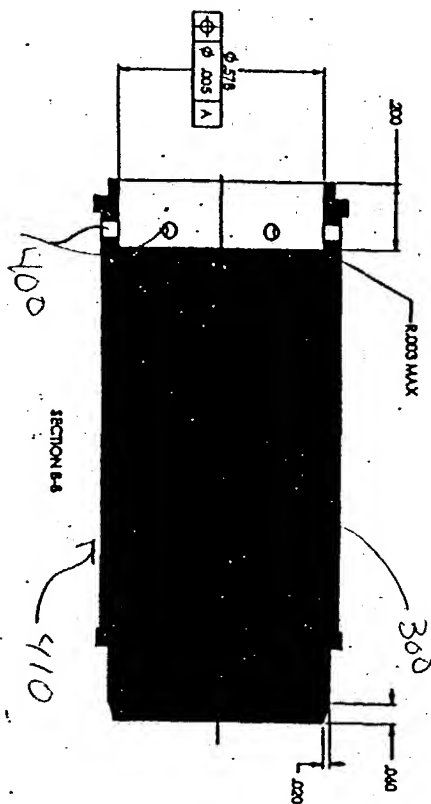
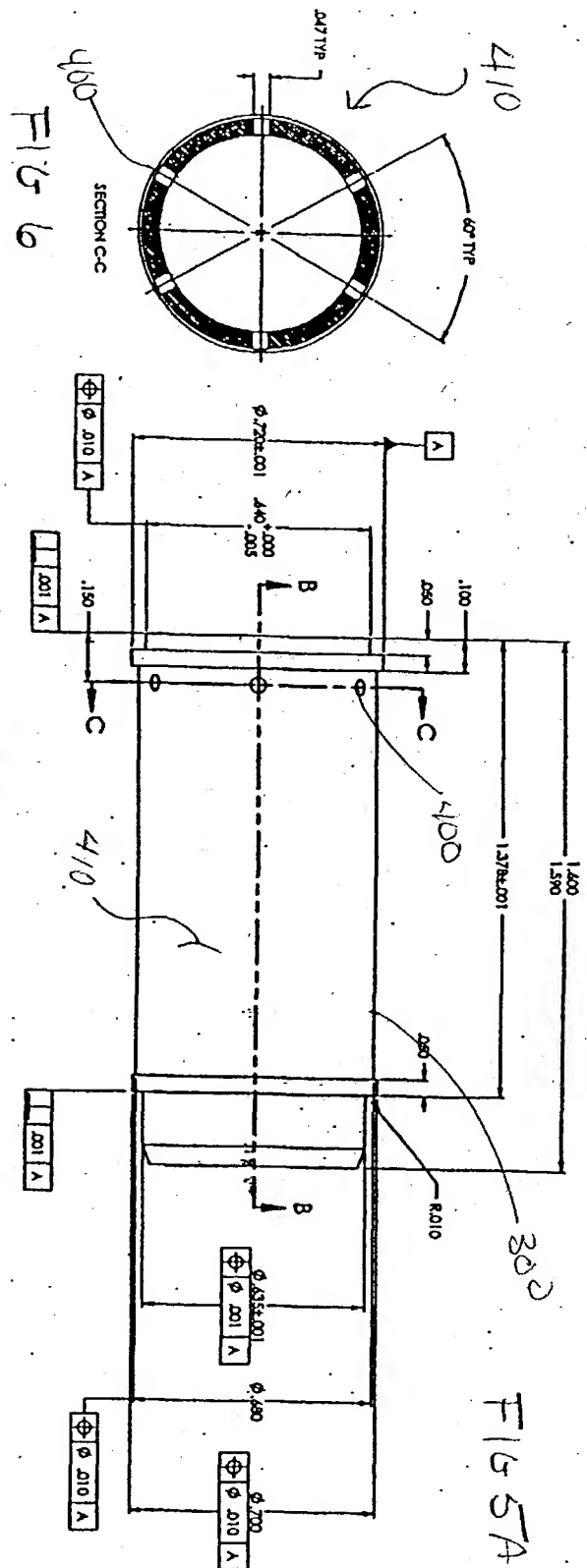


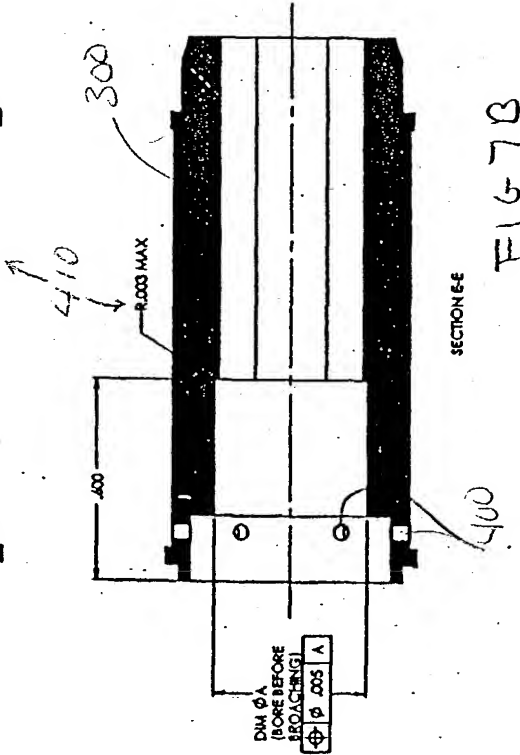
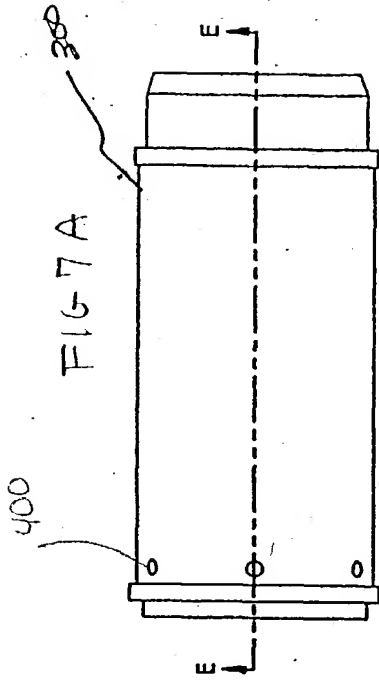
FIG 1. PRIOR ART







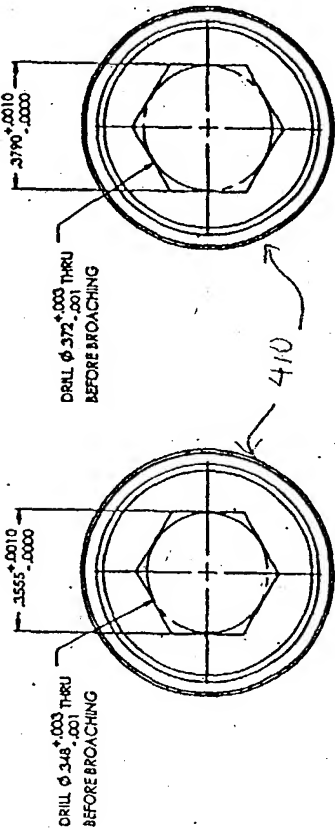
1. REFERENCE DRAWING #37X-XXX-XXX FOR ASSEMBLY OF B7PASS HOUSING.
2. DEBURR AND DEGREASE.
3. CLEAN AND PASSIVATE.
1. SURFACE FINISH TO BE 10 μ IN RA.



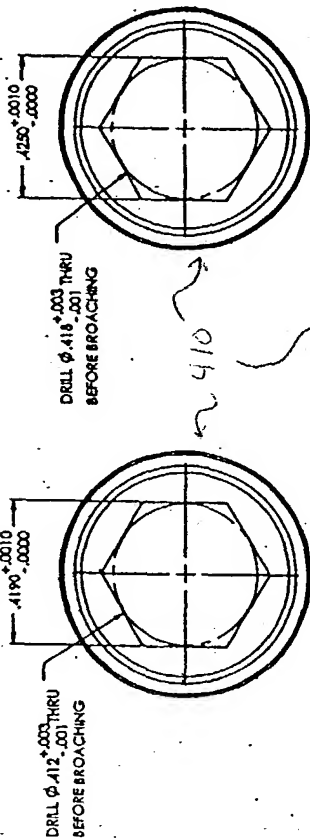
SECTION E-E

FIG 7B

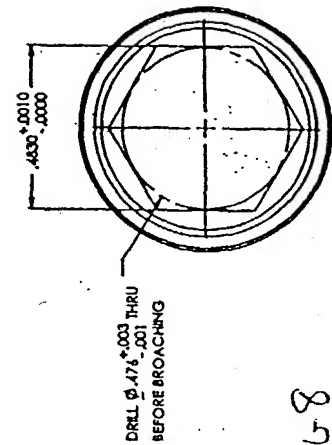
TABLE 1 INLET BORE DIAMETER	
	DIAMETER A
	0.438
	0.489
	0.516
	0.516
	0.578



(TUBE #2, 169 MAX)



(TUBE #2, 217 MAX)

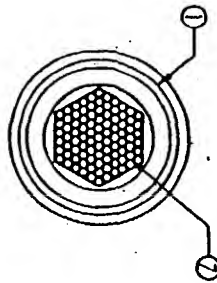


(TUBE #3, 169 MAX)

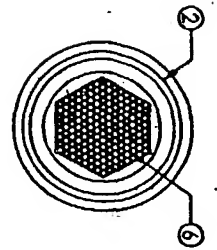
FIG 8

ITEM	QTY
1	1
2	1
3	1
4	1
5	1
6	1
7	1

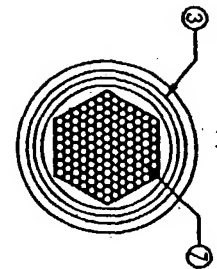
DESCRIPTION	MATERIAL/REMARKS
BYPASS HOUSING	BT #3 TUBES MAX
BYPASS HOUSING	BT #2 TUBES MAX
BYPASS HOUSING	127 #3 TUBES MAX
BYPASS HOUSING	217 #2 TUBES MAX
BYPASS HOUSING	189 #3 TUBES MAX
TUBING, BYPASS	TUBE #2, 025 OD
TUBING, BYPASS	TUBE #3, 037 OD



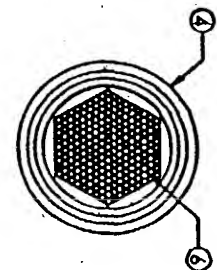
(TUBE #3, 91 MAX, WITH
 20 BENT TUBES MIN.)



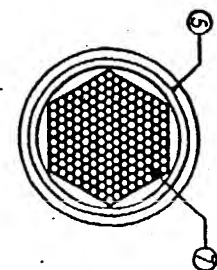
(TUBE #2, 169 MAX, WITH
 34 BENT TUBES MIN.)



(TUBE #3, 127 MAX, WITH
 28 BENT TUBES MIN.)



(TUBE #2, 217 MAX, WITH
 44 BENT TUBES MIN.)

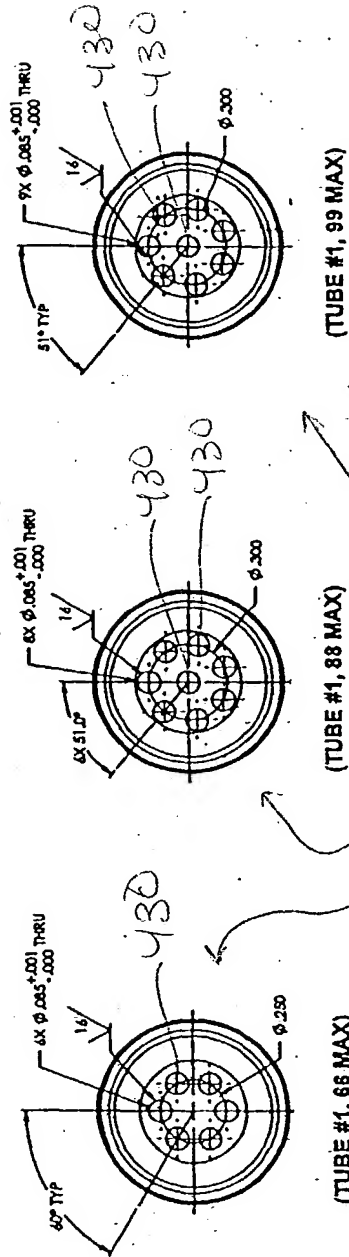


(TUBE #3, 169 MAX, WITH
 34 BENT TUBES MIN.)

FIG 9

410

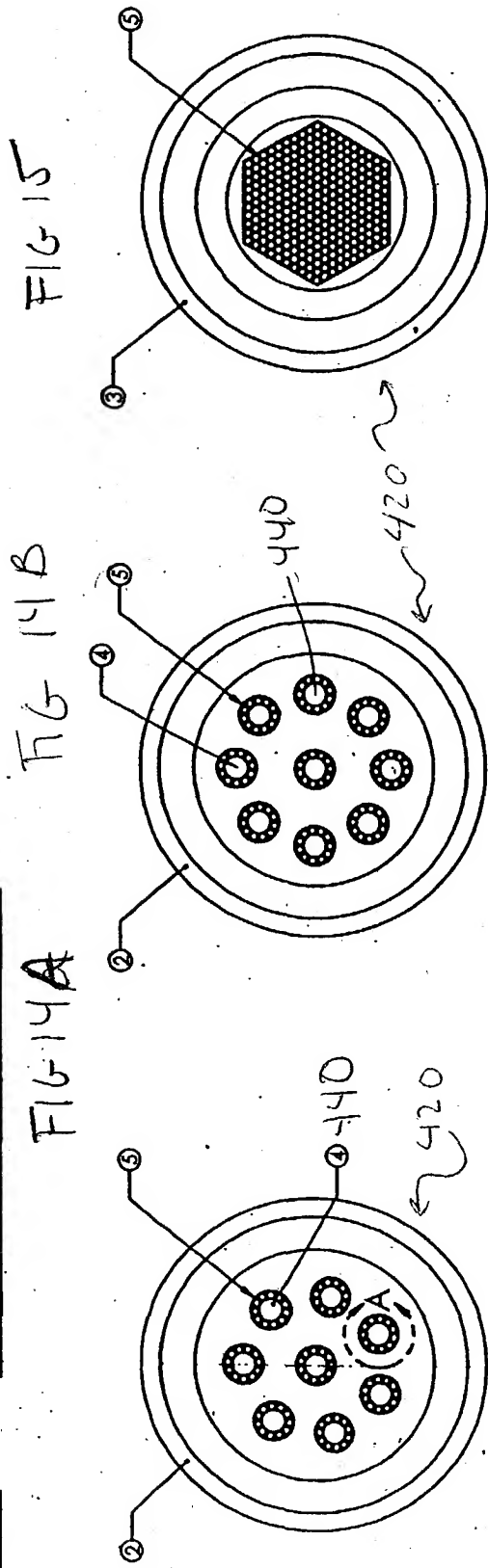
**380 SERIES BYPASS CONFIGURATIONS
(MACHINE FROM BLANK 380-000-0000)**



1316H

ITEM	QTY
1	1
2	1
3	1
4	4
5	4

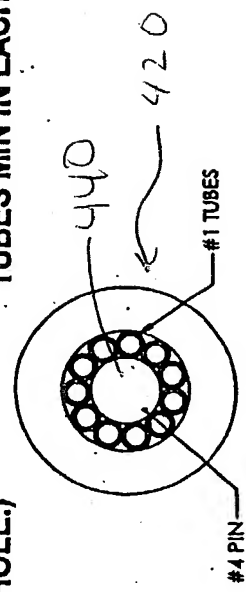
DESCRIPTION	MATERIAL/REMARKS
BYPASS HOUSING	BT #1 TUBES MAX
BYPASS HOUSING	12/ #1 TUBES MAX
BYPASS HOUSING	271 #1 TUBES MAX
PM, BYPASS, 1 1/2"	44 PIN
TUBING, BYPASS, 1 1/2"	F.H. TUBE #1, .015 OD



(TUBE #1, 88 MAX, AND #4 PIN
 IN CENTER WITH 5 BENT
 TUBES MIN IN EACH HOLE.)

(TUBE #1, 99 MAX, AND #4 PIN
 IN CENTER WITH 5 BENT
 TUBES MIN IN EACH HOLE.)

(TUBE #1, 271 MAX, WITH
 55 BENT TUBES MIN.)



DETAIL A
 SCALE 12:1

REVISIONS					
REV.	DESCRIPTION	ISS	DATE	ENG.	QNTY.
X1	INITIAL RELEASE				
X2	RE-DESIGNED FOR LONGER TUBES				
X3	MODIFIED INLET PATH.				
X4	UPDATED DIMENSIONS AND TOLERANCES				

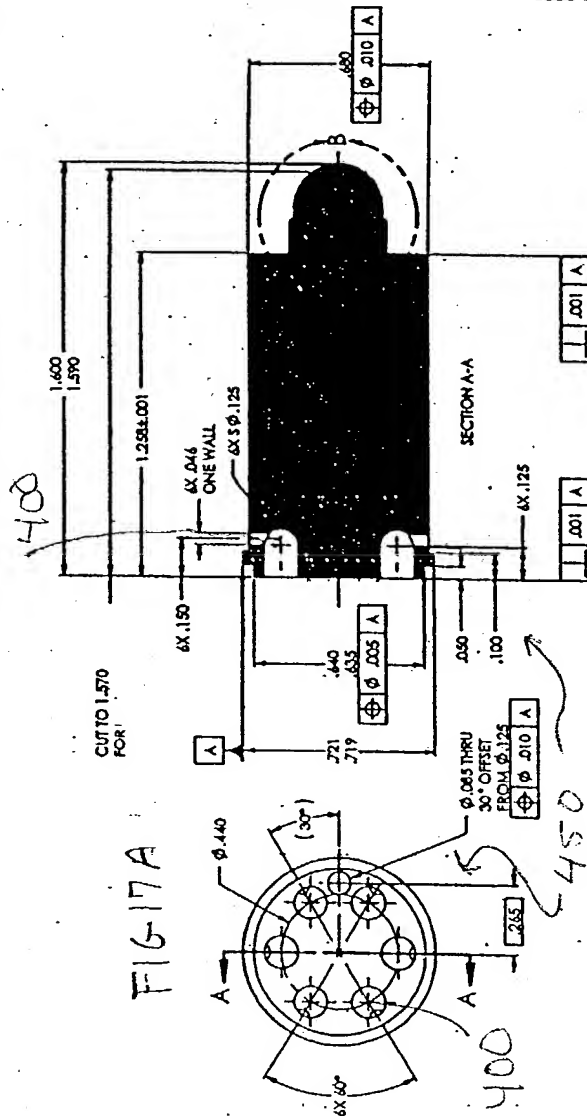
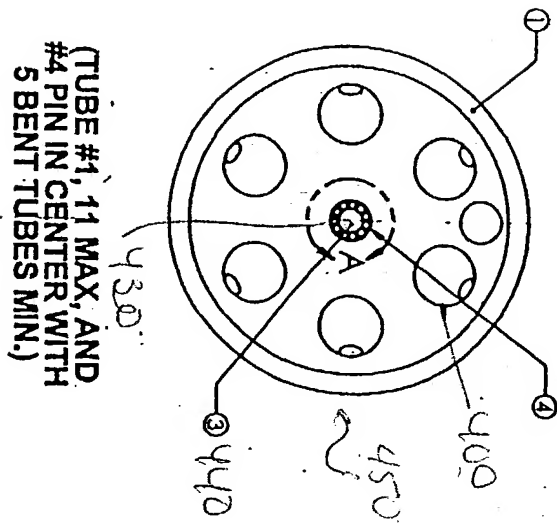
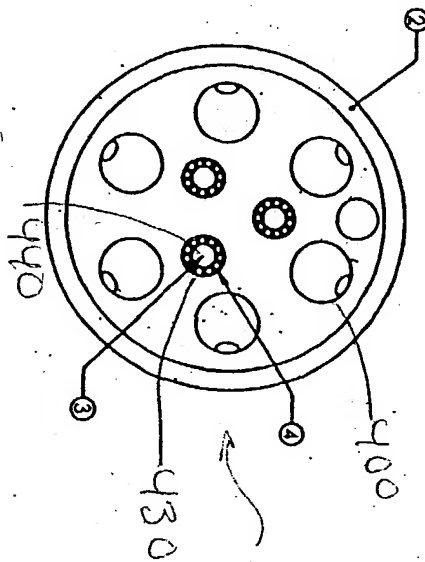


FIG 18A



(TUBE #1, 11 MAX, AND #4 PIN IN CENTER WITH 5 BENT TUBES MIN.)

FIG 18B



(TUBE #1, 33 MAX, AND #4 PIN IN CENTER WITH 5 BENT TUBES MIN IN EACH HOLE.)

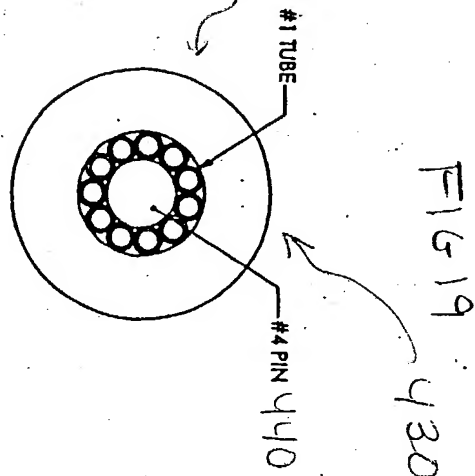


FIG 19

DETAIL A
 SCALE 12:1

ITEM	QTY
1	1
2	1
3	N/A
4	N/A

DESCRIPTION	MATERIAL/REMARKS
BYPASS HOUSING	1/2" OR 1 1/4" TUBES MAX
BYPASS HOUSING	2 1/2" OR 3 1/4" TUBES MAX
PIN, BYPASS, 1 1/2"	#4 PIN
TUBING, BYPASS, 1 1/2"	FCI TUBE #1, 0185 OD